

Pressure Wave Series

Big Performance in a Small Package!

- **Stainless Steel System Connection**
- **Virgin Polypropylene Liner**
- **100% Butyl Diaphragm**
- **Appliance Quality Paint Finish**
- **Brass Air Stem**
- **Comprehensive Testing**

Pressure Wave tanks are ideally suited for irrigation applications, booster systems, shallow jet pumps and centrifugal pump configurations. The Pressure Wave series is constructed with a single butyl diaphragm and polypropylene liner assembly that completely contains drawdown water. The diaphragm is constructed with an FDA approved, high-grade butyl rubber compound.

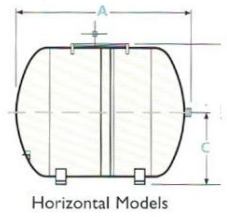
Pressure Wave tanks are made with a stainless steel system connection and are finished with an appliance quality paint especially suited for outdoor installations. The Pressure Wave Series is available in vertical with base, in-line and horizontal configurations.

Pressure Wave tanks are quality tested at several stages on the production line to insure the structural integrity of every tank.

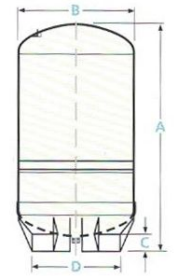


Pressure Wave™ Series In-Line Models

Model #'s		Tank Dimensions								Volume		Shipping (Box) Volume		Shipping (Box) Weight	
NPT	BSP	A		B		C		D		gal.	liter	cu. ft.	cu. m.	lbs	kilos
inch	cm	inch	cm	inch	cm	inch	cm	inch	cm						
In-Line Models															
	PWB-2	7.2	18.3	5.0	12.7					0.5	2	0.1	0.00	1.2	0.5
PW6-8L	PWB-8	12.5	31.7	8.0	20.3					2.1	8	0.5	0.02	5.8	2.6
PW10-12L	PWB-12	14.4	36.6	9.6	24.4					3.2	12	0.9	0.03	7.0	3.2
PW15-18L	PWB-18	14.5	36.8	11.0	27.9					4.8	18	1.1	0.03	9.8	4.4
PW20-24L	PWB-24	17.5	44.4	11.5	29.2					6	24	1.5	0.04	11.5	5.2
PW25-40L	PWB-40	16.5	41.9	15.3	38.7					10.6	40	2.4	0.07	22.3	10.1
PW44-60L	PWB-60	20.8	52.7	15.3	38.7					15	60	3.1	0.09	23.3	10.5
Horizontal Models															
PW20S-20L	PWB-20H	17.5	44.4	11.4	28.9	5.9	15.1			5.3	20	1.5	0.04	13.3	6.0
PW44S-60L	PWB-60H	20.8	52.8	16.3	41.4	8.4	21.3			14	60	3.3	0.09	28.3	12.8
PW66S-80L	PWB-80H	28.5	72.4	16.3	41.4	8.4	21.3			20	80	4.5	0.13	38.0	17.2
Vertical Models w/Skirt															
PW44-14NPT	PWB-80V	23.3	59.0	15.3	38.8	1.2	3.0	11.8	30.0	14	60	3.4	0.10	24.5	11.1
PW66-20NPT	PWB-80V	29.7	75.4	15.3	38.8	1.2	3.0	11.8	30.0	20	80	4.4	0.12	38.0	17.2



Horizontal Models



Vertical Models w/ Skirt

BSP Models: 1" Stainless Steel Connection - 28 psi/1.9 bar pre-charge
 NPT Models: 3/4" NPT Stainless Steel - 28 psi/1.9 bar pre-charge
 Maximum working pressure: BSP models - 150 psi/ 10 bar; NPT models - 125 psi/8.6 bar
 Maximum working temperature: All models - 90° C/200°F

Quick Sizing Chart

Model #'s		Total Tank Volume		Drawdown					
				@20/40		@30/50		@40/60	
		gal.	liters	gal.	liters	gal.	liters	gal.	liters
	PWB-2	0.5	2	0.2	0.7	0.2	0.6	0.1	0.5
PW6-8L	PWB-8	2.1	8	0.8	2.9	0.7	2.5	0.6	2.1
PW10-12L	PWB-12	3.2	12	1.2	4.5	1	3.6	0.9	3.3
PW15-18L	PWB-18	4.8	18	1.7	6.6	1.5	5.6	1.3	4.8
PW20-24L	PWB-24	6	24	2.2	8.4	1.8	7	1.6	6.1
PW25-40L	PWB-40	10.6	40	3.9	14.6	3.3	12.4	2.8	10.7
PW44-60L	PWB-60	14	60	5.2	19.7	4.3	16.3	3.8	14.4
PW20S-20L	PWB-20H	5.3	21	1.9	7.3	1.6	6.2	1.4	5.4
PW44S-60L	PWB-60H	14	60	5.2	19.7	4.3	16.3	3.8	14.4
PW66S-80L	PWB-80H	20	80	7.6	28.8	6.5	24.8	5.5	20.8
PW44-14NPT	PWB-60V	14	60	5.2	19.7	4.3	16.3	3.8	14.4
PW66-20NPT	PWB-80V	20	80	7.6	28.8	6.5	24.8	5.5	20.8



Deep Drawn Steel Dome Construction

Stainless Steel Water Connection

Brass Air Stem with Corrosion-Resistant Cap

Appliance Quality Paint Finish Suitable for Outdoor Installations

High Grade Butyl Diaphragm

Polypropylene liner water chamber



Certified to ANSINSP #1



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Model #'s		Dimensions								Volume		Shipping (box)		Shipping (box)	
		A		B		C		D				Volume	Weight		
BSP	NPT	cm	inches	cm	inches	cm	inches	cm	inches	liter	gal	cu. M	cu. ft	kilos	lbs
GC60	115	57.1	22.5	40.6	16	4.8	1.9	32.4	12.75	60	15	0.1	3.65	12.46	27.5
GC80	120	74.9	29.5	40.6	16	4.8	1.9	32.4	12.75	80	20	0.14	4.74	15.4	34
GC100	125	88.9	35	40.6	16	4.8	1.9	32.4	12.75	100	25	0.16	5.68	18.57	41
GC130	135	110.5	43.5	40.6	16	4.8	1.9	32.4	12.75	130	35	0.2	7.08	23.1	51
GC200	145	93.9	37	53.3	21	5.59	2.2	43.1	17	200	48	0.29	10.14	29.9	66
GC240	160	121.2	47.8	53.3	21	5.59	2.2	43.1	17	240	60	0.37	13.18	36.47	80.5
GC310	180	150	59.1	53.3	21	5.59	2.2	43.1	17	310	80	0.46	16.25	45.4	100
GC500	1120	152.9	60.2	66	26	5.59	2.2	54	21.25	500	123	0.7	26.14	69.31	153

System Connection:


Models GC60 - GC130: 1" B.S.P. stainless steel elbow
 Models GC200 - GC500: 1 1/4" B.S.P. stainless steel elbow
 Models 115 - 135: 1" N.P.T. stainless steel elbow
 Models 145 - 1120: 1 1/4" N.P.T. stainless steel elbow

Standard Precharge: 38 psi/2.6 bar
 Maximum working temperature 200° F/90° C
 Maximum working pressure 150 psi/10bar

Leak-free, o-ring sealed air valve cap

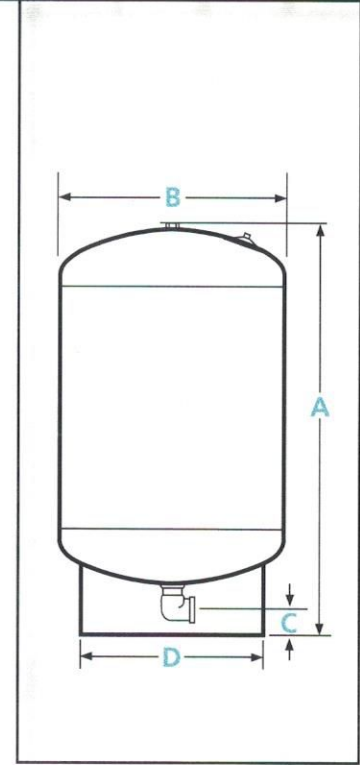
Patented CAD2 diaphragm design

Two-part polyurethane/epoxy primed paint finish



Stainless steel water connection

Condensation reducing design



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The Challenger™ Series

Features

- Patented CAD2 diaphragm technology
- NSF Standard 61, CE/PED, WRAS, ACS, ISO-9001, Gost approved
- Stainless steel water connection
- Condensation reducing design
- Two part polyurethane, epoxy primed paint finish
- Leak free air valve cap sealed with closed cell foam
- Comprehensive testing
- No maintenance

Challenger™ tanks are ideally suited for a wide range of applications, including booster systems, thermal expansion, heating expansion, irrigation systems, and hydraulic hammer arresting.

Water Chamber, Patented Controlled Action Design:

Efficient and cost effective, Challenger™ tanks are designed with a patented controlled action CAD2 diaphragm assembly. It features a chlorine resistant 100% butyl diaphragm with a precision molded copolymer polypropylene liner for superior air and water separation. The CAD2 diaphragm assembly is clenched together with a positive lock internal clench ring which contains drawdown water in a pre-charged air atmosphere, thus providing separation between the diaphragm and tank wall. This "air buffer" design means few problems with condensation. Constructed with a FDA approved high grade butyl, the diaphragm assembly seals water in a true non-corrosive chamber:

The stainless steel port diffuser and system connection directs water into the tank agitating it as it enters, in order to suspend debris and solids to prevent clogging the port.

On the exterior, the almond colored two part polyurethane paint finish over an epoxy undercoating provides hundreds of hours of UV and salt spray protection.

The air chamber is sealed with a fixed o-ring and closed cell foam and will provide many years of leak free and service free life.

Challenger™ tanks are quality tested at several stages on the production line to insure the structural integrity of every tank.

Challenger™ tanks are the best pressure vessels available in the market today and represent the best value for the investment.

